

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P261257

Luminaire Tested: **24CZ-LD5-30-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2454.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

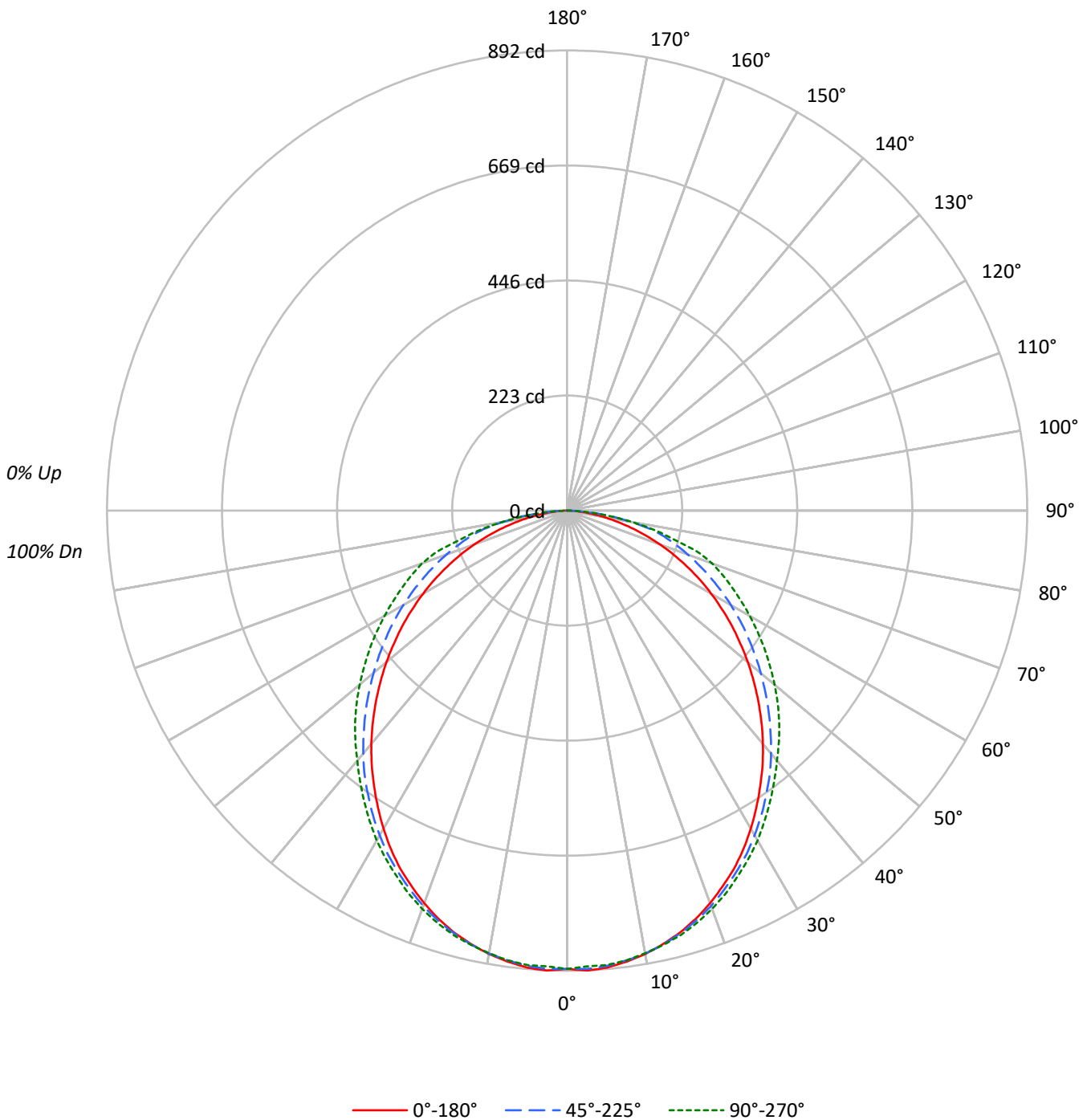
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1195	1195	1195
5°	1201	1197	1194
10°	1193	1192	1190
15°	1179	1182	1186
20°	1160	1168	1176
25°	1137	1149	1161
30°	1106	1129	1147
35°	1072	1105	1128
40°	1037	1080	1111
45°	997	1052	1106
50°	957	1025	1099
55°	916	1004	1096
60°	868	987	1101
65°	816	975	1123
70°	752	980	1176
75°	666	1015	1095
80°	557	962	987
85°	415	769	706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.4
10°-20°	238.9	9.7
20°-30°	356.0	14.5
30°-40°	419.1	17.1
40°-50°	425.9	17.4
50°-60°	382.9	15.6
60°-70°	302.5	12.3
70°-80°	191.9	7.8
80°-90°	52.9	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	678.9	27.7
0°-40°	1097.9	44.7
0°-60°	1906.7	77.7
0°-90°	2454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	889	882	886	884	884	84
15°	847	843	848	851	852	239
25°	766	765	774	779	782	352
35°	652	656	673	680	687	408
45°	524	532	553	569	581	404
55°	390	400	428	456	467	349
65°	256	270	306	340	353	254
75°	128	150	195	212	211	136
85°	27	46	50	46	46	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.4	888.4	888.4	888.4	888.4
2.5°	892.5	885.9	889.2	887.6	884.3
5°	889.2	881.9	885.9	884.3	884.3
7.5°	881.9	876.1	879.4	878.6	879.4
10°	872.9	867.2	872.1	872.1	871.2
12.5°	860.6	855.7	861.4	861.4	862.3
15°	846.7	842.7	848.4	850.8	851.6
17.5°	829.6	825.5	832.9	835.3	837.8
20°	810.0	808.4	815.7	818.2	821.4
22.5°	788.0	788.0	795.3	798.6	803.5
25°	765.9	765.1	774.1	779.0	782.2
27.5°	739.8	740.6	752.0	756.9	761.0
30°	712.0	713.7	726.7	732.4	738.2
32.5°	682.6	685.9	700.6	707.1	712.8
35°	652.4	656.5	672.8	680.2	686.7
37.5°	622.2	627.9	645.1	652.4	659.8
40°	590.4	595.3	614.9	623.8	632.8
42.5°	557.7	564.2	583.8	596.9	607.5
45°	524.2	531.6	552.8	569.1	581.4
47.5°	490.7	500.5	521.0	543.0	553.6
50°	457.3	467.1	489.9	514.4	525.0
52.5°	423.0	432.8	458.9	484.2	495.6
55°	390.3	400.1	427.9	455.6	467.1
57.5°	356.0	366.6	397.7	426.2	437.7
60°	322.5	333.1	366.6	396.8	409.1
62.5°	289.9	301.3	336.4	368.3	380.5
65°	256.4	269.5	306.2	339.7	352.7
67.5°	223.7	238.4	276.8	311.9	325.8
70°	191.1	208.2	249.0	285.0	298.9
72.5°	159.2	178.0	221.3	257.2	264.6
75°	128.2	150.2	195.2	212.3	210.7
77.5°	98.8	123.3	165.8	169.0	173.9
80°	71.9	98.8	124.1	130.6	127.4
82.5°	47.4	74.3	89.0	85.7	84.9
85°	26.9	46.5	49.8	45.7	45.7
87.5°	11.4	18.8	16.3	12.2	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)